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1 [Communications of the ACM: Volume 53 Issue 6](#)

June 2010 Communications of the ACM

Publisher: ACM

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Bibliometrics: Downloads (6 Weeks): 6845, Downloads (12 Months): 6845, Downloads (Overall): 6845, Citation Count: 0

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Ruge, Michael F. H. Stumm

 November 1997 **CASCON '97:** Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

 Full text available [Full Text](#) (4.21 MB) Additional Information [Full Text](#) [Abstract](#) [References](#) [Index Terms](#)
Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 258, Downloads (Overall): 5910, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Post, an event ...

3 [Survey and taxonomy of packet classification techniques](#)

David F. Taylor

 September 2005 **Computing Surveys (CSUR)**, Volume 37 Issue 3

Publisher: ACM [Download Proceedings](#)

 Full text available [Full Text](#) (1.60 MB) Additional Information [Full Text](#) [Abstract](#) [References](#) [Index Terms](#)
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Packet classification is an enabling function for a variety of Internet applications including quality of service, security, monitoring, and multimedia communications. In order to classify a packet as belonging to a particular flow or set of flows, network ...

Keywords: Packet classification, flow identification

4 [A dictionary of APL](#)

Kenneth E. Iverson

 March 2007 **SI GAPS APL Quote Quad**, Volume 35 Issue 1-2

Publisher: ACM

 Full text available [Full Text](#) (921.08 KB) Additional Information [Full Text](#) [Abstract](#) [References](#) [Index Terms](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 42, Downloads (Overall): 173, Citation Count: 1

APL is a formal, imperative language. Because it is imperative, a sentence may be called an instruction, and may be executed to produce a result. In illustrations used here, an instruction will be indented, and the result of its execution will be shown ...

5 [Efficient and provably secure aggregation of encrypted data in wireless sensor networks](#)

George Vasilakos, Aditya K. Choudhury, Brian Nishetup, Vane Livier

 May 2009 **Transactions on Sensor Networks (TOSN)**, Volume 5 Issue 3

Publisher: ACM [Download Proceedings](#)

 Full text available [Full Text](#) (270.17 KB) Additional Information [Full Text](#) [Abstract](#) [References](#) [Index Terms](#)
Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 617, Downloads (Overall): 701, Citation Count: 0

Wireless sensor networks (WSNs) are composed of tiny devices with limited computation and battery capacities. For such resource-constrained devices, data transmission is a very energy-consuming operation. To maximize WSN lifetime, it is essential to ...

Keywords: Authentication, cryptography, privacy, pseudorandom functions, secure data aggregation, stream ciphers, wireless sensor networks

6 [Practical network support for IP traceback](#)



Stefan Savage, David Wagner, Anna Naeve, Tom Anderson

 August 2000 **SIGCOMM '00:** Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication

Publisher: ACM  [Request Permissions](#)Full text available  [PDF](#) (167.15 KB)Additional Information [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 219, Downloads (Overall): 1852, Citation Count: 157

This paper describes a technique for tracing anonymous packet flooding attacks in the Internet back towards their source. This work is motivated by the increased frequency and sophistication of denial-of-service attacks and by the difficulty in tracing


Also published in:

October 2000 **SIGCOMM Computer Communication Review** Volume 30 Issue 4**7** [Link-layer protection in 802.11i WLANs with dummy authentication](#) [Zhennan Yang, Adam C. Chapman, Baoxian Su, Xishe Bai, Dong Xuan](#)March 2009 **WiSec '09: Proceedings of the second ACM conference on Wireless network security****Publisher:** ACM  [Request Permissions](#)Full text available  [PDF](#) (477.66 KB)Additional Information [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 251, Downloads (Overall): 330, Citation Count: 0

The current 802.11i standard can provide data confidentiality, integrity and mutual authentication in enterprise Wireless Local Area Networks (WLANs). However, secure communication can only be provided after successful authentication and a robust security ...

Keywords: dummy authentication, open access, security, wlan**8** [Interlacing mobile communications: the insecurity of 802.11](#) [Neha Seshan, Ian Goldberg, David Wagner](#)July 2001 **MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking****Publisher:** ACM  [Request Permissions](#)Full text available  [PDF](#) (181.52 KB)Additional Information [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 16, Downloads (12 Months): 307, Downloads (Overall): 3150, Citation Count: 102


The 802.11 standard for wireless networks includes a Wired Equivalent Privacy (WEP) protocol, used to protect link-layer communications from eavesdropping and other attacks. We have discovered several serious security flaws in the protocol, stemming ...

9 [Matching attack patterns to security vulnerabilities in software-intensive system designs](#) [Michael Grack, Laurie Williams](#)July 2005 **SESS '05: Proceedings of the 2005 workshop on Software engineering for secure systems—building trustworthy applications****Publisher:** ACMFull text available  [PDF](#) (180.98 KB)Additional Information [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 146, Downloads (Overall): 1419, Citation Count: 3


Fortifying software applications from attack is often an effort that occurs late in the software development process. Applying patches to fix vulnerable applications in the field is a common approach to securing applications. Abstract representations ...

Keywords: design, regular expression, security

Also published in:

July 2005 **SIGSOFT Software Engineering Notes** Volume 30 Issue 4**10** [Network support for IP traceback](#) [Stefan Savage, David Wetherall, Arun Karim, Ian Anderson](#)June 2001 **IEEE/ACM Transactions on Networking (TON)** Volume 9 Issue 3**Publisher:** IEEE PressFull text available  [PDF](#) (196.89 KB)Additional Information [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 75, Downloads (Overall): 1123, Citation Count: 51

This paper describes a technique for tracing anonymous packet flooding attacks in the Internet back toward their source. This work is motivated by the increased frequency and sophistication of denial-of-service attacks and by the difficulty in tracing ...

Keywords: computer network management, computer network security, network servers, stochastic approximation, wide-area networks**11** [Optimizing memory transactions](#) [Jim Haring, Mark Plescia, Argham Sharma, David Tarditi](#)June 2006 **PLDI '06: Proceedings of the 2006 ACM SIGPLAN conference on Programming language design and implementation****Publisher:** ACM  [Request Permissions](#)Full text available  [PDF](#) (235.79 KB)Additional Information [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 122, Downloads (Overall): 883, Citation Count: 66

Atomic blocks allow programmers to delimit sections of code as 'atomic', leaving the language's implementation to enforce atomicity. Existing work has shown how to implement atomic blocks over *word-based transactional memory* that provides scalable ...

Keywords: atomicity, critical regions, transactional memory

Also published in:
June 2006 **SIGPLAN Notices** Volume 41 Issue 6

12 [Verification and change-impact analysis of access-control policies](#)

Krishna Felat, Srinivas Kuchibhotla, Luca A. Meyerovich, Michael David Scharnath

May 2005 **ICSE '05: Proceedings of the 27th international conference on Software engineering**

Publisher: ACM [Request Permissions](#)

Full text available: [PDF](#) (206 70 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 110, Downloads (Overall): 884, Citation Count: 33

Sensitive data are increasingly available on-line through the Web and other distributed protocols. This heightens the need to carefully control access to data. Control means not only preventing the leakage of data but also permitting access to necessary ...

Keywords: XACML, access-control policies, change-impact analysis, decision diagram, verification

13 [Compressed bloom filters](#)

Abraham M. M. ...

October 2002 **IEEE/ACM Transactions on Networking (TON)** Volume 10 Issue 5

Publisher: IEEE Press

Full text available: [PDF](#) (305 55 KB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 121, Downloads (Overall): 947, Citation Count: 29

A Bloom filter is a simple space-efficient randomized data structure for representing a set in order to support membership queries. Although Bloom filters allow false positives, for many applications the space savings outweigh this drawback when the ...

Keywords: algorithms, computer networks, distributed computing, distributed information systems, information theory

14 [WISDOM: security-aware filters](#)

Blaze Arachovitz, George Karagiannis, George Kopidakis, Giovanni Maxwell, Alexander Pappas, Bob Steinberg, Fred West, Martin Koyaba, Carlo Di Corleone-Gitterman

March 2009 **EUROSEC '09: Proceedings of the Second European Workshop on System Security**

Publisher: ACM [Request Permissions](#)

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Additional Information: [Full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 37, Downloads (Overall): 64, Citation Count: 0

The network is becoming faster day by day. High-speed links, of many Gbps, are considered as commodity technology empowering the Internet. On the other hand, Moore's law still applies to current processing power. It needs about 18 months for CPUs to ...

15 [On designing fast nonuniformly distributed IP address lookup hashing algorithms](#)

Chiranjeevi, J. Maruthi, Srinivas K., Pandey, W. ...

December 2006 **IEEE/ACM Transactions on Networking (TON)** Volume 17 Issue 6

Publisher: IEEE Press [Request Permissions](#)

Full text available: [PDF](#) (1 02 MB)

Additional Information: [Full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 66, Downloads (Overall): 66, Citation Count: 0

Computer networks have continued to make substantial advances in the past couple of decades through better technologies and methodologies employed. As the usage of the networks continues to increase exponentially, high throughput of the networks has ...

Keywords: IP address lookup, hashing algorithm, nonuniform distribution

16 [Communications of the ACM: Volume 51 Issue 12](#)

December 2008 Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) [PDF](#) (6 91 MB)

Additional Information: [Full citation](#), [index terms](#)

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17 [Communications of the ACM: Volume 52 Issue 1](#)

January 2009 Communications of the ACM

Publisher: ACM



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18 [Communications of the ACM: Volume 51 Issue 11](#)

November 2008 Communications of the ACM

 **Publisher:** ACM



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19 [Communications of the ACM: Volume 51 Issue 9](#)

September 2008 Communications of the ACM

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Bibliometrics Downloads (6 Weeks): 195, Downloads (12 Months): 195, Downloads (Overall): 4128, Citation Count: 0

20 [Communications of the ACM: Volume 51 Issue 8](#)

February 2008 Communications of the ACM

 **Publisher:** ACM





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